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PATENT

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Tatsumi et al. Serial No.: unknown  
Filed: concurrent herewith Docket No.: 12109.44US01  
Title: ADSORBENT, ADSORPTION COLUMN AND APPARATUS FOR  
PRESSURE SWING ADSORPTION SEPARATION

CERTIFICATE UNDER 37 CFR 1.10

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By: Yolanda Gray  
Name: Yolanda Gray

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents  
Washington, D. C. 20231

Dear Sir:

In connection with the above-identified application filed herewith, please enter the following preliminary amendment:

IN THE CLAIMS

Please amend claims 3-5 and 12 as follows:

3. (amended) The adsorbent according to claim 1, wherein said multi-component gas mixture is air and said objective component gas is oxygen.

4. (amended) The adsorbent according to claim 1, wherein said adsorbent is one of a Ca-A type zeolite, a Na-X type zeolite or a zeolite where at least a part of Na of said Na-X type zeolite is ion-exchanged by Ca, Mg or Li.

5. (amended) The adsorbent according to claim 1, wherein said pressure swing adsorption separation process includes a vacuum regeneration process.

12. (amended) A pressure swing adsorption separation apparatus, said apparatus provided with said adsorption column according to claim 6.